

BALDOR® • RELIANCE 

Product Information Packet

EM3550

1.5HP,3500RPM,3PH,60HZ,56,3520M,TEFC,F1

Part Detail							
Revision:	S	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGM760	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	35T696	Layout:	35LYT696	Poles:	02	Created Date:	05-21-2010
Base:	RG	Eff. Date:	02-21-2021	Leads:	9#18		

Specs			
Catalog Number:	EM3550	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	56	Inverter Code:	Inverter Ready
Frame Material:	Steel	KVA Code:	L
Output @ Frequency:	1.500 HP @ 60 HZ	Lifting Lugs:	No Lifting Lugs
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3520M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	85
	CSA EEV	Product Family:	General Purpose
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Ground Indicator:	No Shaft Grounding
Blower:	None	Shaft Rotation:	Reversible

Current @ Voltage:	4.000 A @ 208.0 V	Shaft Slinger Indicator:	No Slinger
	3.800 A @ 230.0 V	Speed Code:	Single Speed
	1.900 A @ 460.0 V	Motor Standards:	NEMA
Design Code:	B	Starting Method:	Direct on line
Drip Cover:	No Drip Cover	Thermal Device - Bearing:	None
Duty Rating:	CONT	Thermal Device - Winding:	None
Electrically Isolated Bearing:	Not Electrically Isolated	Vibration Sensor Indicator:	No Vibration Sensor
Feedback Device:	NO FEEDBACK	Winding Thermal 1:	None
Front Shaft Indicator:	None	Winding Thermal 2:	None

Nameplate NP3441LUA										
CAT.NO.	EM3550									
SPEC	35T696M760G1									
HP	1.5									
VOLTS	230/460									
AMPS	3.8/1.9									
RPM	3500									
FRAME	56				HZ	60			PH	3
SF	1.15		CODE	L	DES	B		CLASS	F	
NEMA NOM. EFF	84		PF	85						
RATING	40C AMB-CONT									
CC	010A			USABLE AT 208V						4
ENCL	TEFC		SER							
DE	6205			ODE	6203					
VPWM INVERTER READY										
CT6-60H(10:1)VT3-60H(20:1)										
	50Hz 1.5HP 190/380V 4.6/2.3A									
	SF1.0									

Parts List		
Part Number	Description	Quantity
SA197060	SA 35T696M760G1	1.000 EA
RA184497	RA 35T696M760G1	1.000 EA
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 EA
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
35EP3122K00	MASTER ODE,203 BRG,.683SH,#26 DRN,FH MTG	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3123A00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH4005A32SP	IEC FH NO GRSR W/3 HOLES - PRIMED	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.017 GA
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
NP3441LUA	ALUM SUPER-E VPWM INV READY UL CSA-EEV C	1.000 EA
35PA1066	PKG GRP, PRINT PK1008A06	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA

Accessories		
Part Number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1604A01SP	D-FLANGE KIT	

AC Induction Motor Performance Data

Record # 52482

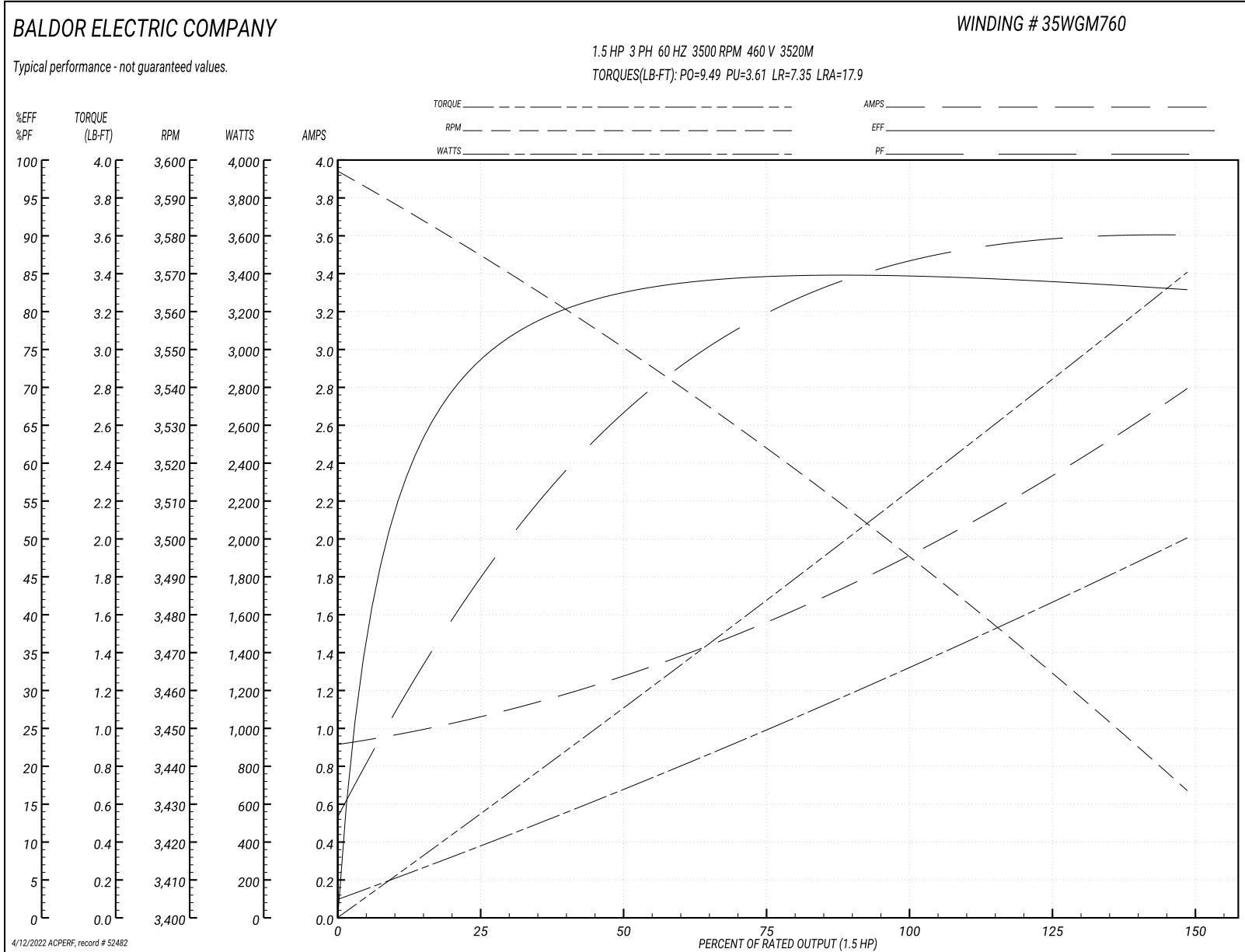
Typical performance - not guaranteed values

Winding: 35WGM760-R051		Type: 3520M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)	1.5	Full Load Torque		2.22 LB-FT		
Volts	230/460	Start Configuration		direct on line		
Full Load Amps	3.8/1.9	Breakdown Torque		9.49 LB-FT		
R.P.M.	3500	Pull-up Torque		3.61 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		7.35 LB-FT	
NEMA Design Code	B	KVA Code	L	Starting Current		17.9 A
Service Factor (S.F.)	1.15	No-load Current		0.932 A		
NEMA Nom. Eff.	84	Power Factor	85	Line-line Res. @ 25°C		12.2 Ω
Rating - Duty	40C	AMB-CONT		Temp. Rise @ Rated Load		43°C
S.F. Amps				Temp. Rise @ S.F. Load		50°C
				Locked-rotor Power Factor		60.1
				Rotor inertia		0.0553 LB-FT ²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	79	85	89	90	87
Efficiency	72.3	82.2	84.4	84.8	84.3	82.8	84.5
Speed	3575	3551	3526	3498	3466	3433	3479
Line amperes	1.03	1.25	1.55	1.91	2.31	2.79	2.15

Performance Graph at 460V, 60Hz, 1.5HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 59170

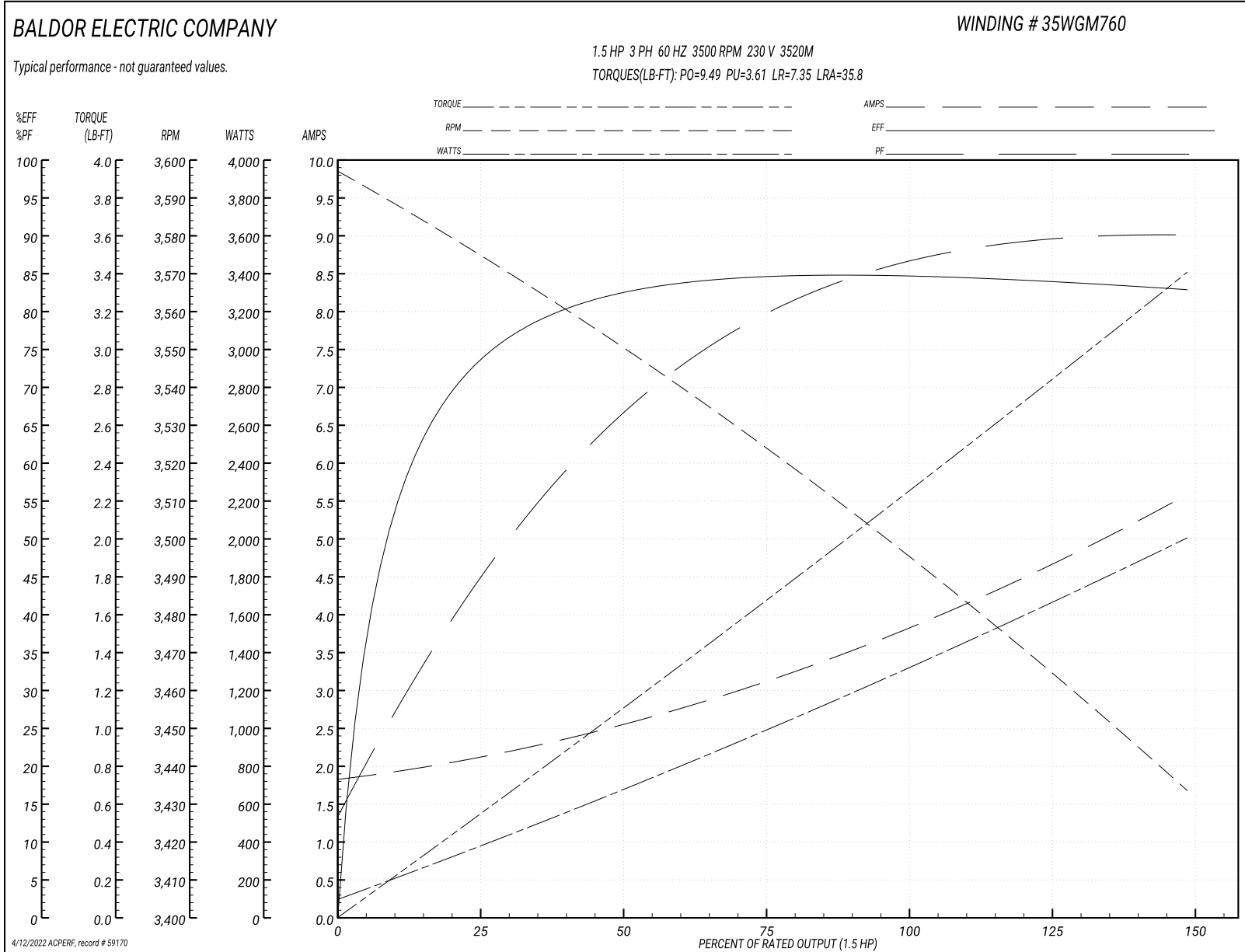
Typical performance - not guaranteed values

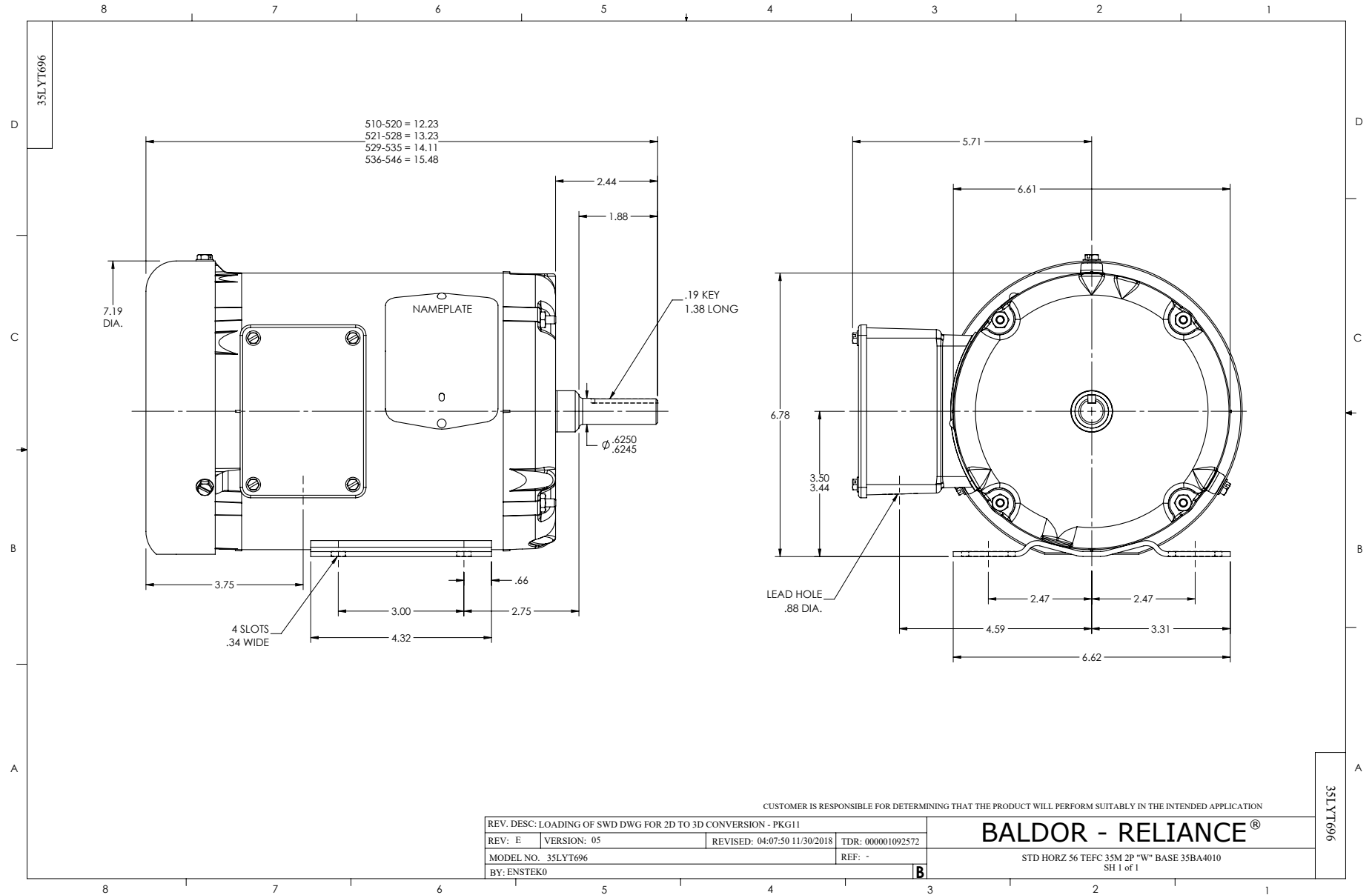
Winding: 35WGM760-R051		Type: 3520M		Enclosure: TEFC	
Nameplate Data			230 V, 60 Hz: Low Voltage Connection		
Rated Output (HP)	1.5	Full Load Torque	2.22 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	3.8/1.9	Breakdown Torque	9.49 LB-FT		
R.P.M.	3500	Pull-up Torque	3.61 LB-FT		
Hz	60 Phase	Locked-rotor Torque	7.35 LB-FT		
NEMA Design Code	B	Starting Current	35.8 A		
Service Factor (S.F.)	1.15	No-load Current	1.86 A		
NEMA Nom. Eff.	84	Line-line Res. @ 25°C	3.04 Ω		
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	43°C		
S.F. Amps		Temp. Rise @ S.F. Load	50°C		
		Locked-rotor Power Factor	60.1		
		Rotor inertia	0.0553 LB-FT ²		

Load Characteristics 230 V, 60 Hz, 1.5 HP

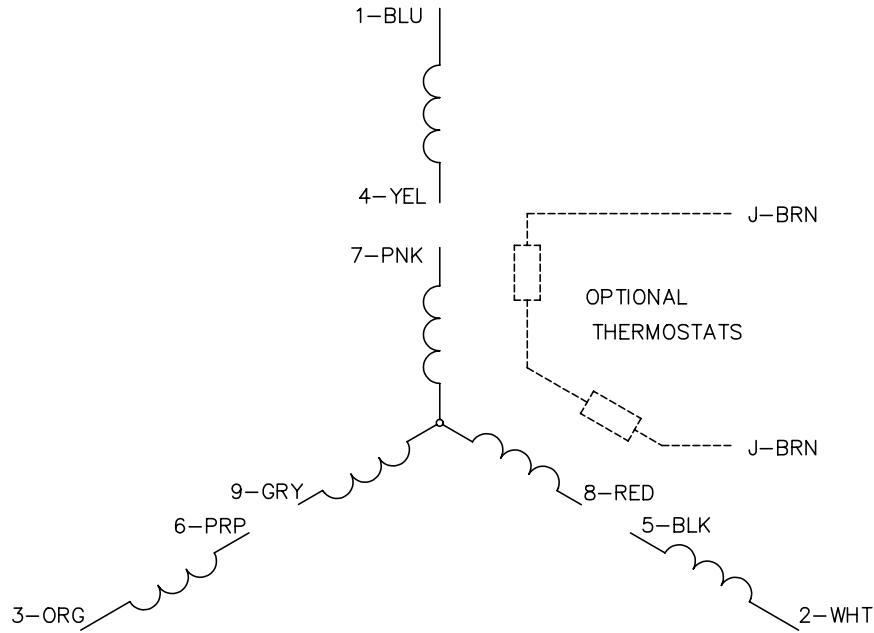
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	79	85	89	90	87
Efficiency	72.3	82.2	84.4	84.8	84.3	82.8	84.5
Speed	3575	3551	3526	3498	3466	3433	3479
Line amperes	2.06	2.5	3.1	3.82	4.62	5.58	4.3

Performance Graph at 230V, 60Hz, 1.5HP Typical performance - Not guaranteed values

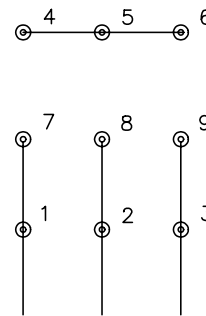




CD0005

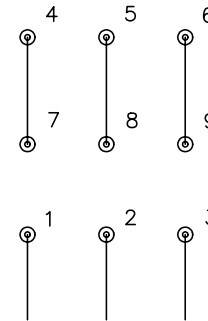


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005